

I CLAIM

1. Reinforced board comprising cured resin and feather barbs.
2. Board of claim 1 wherein said resin is polyurethane.
3. Board of claim 2 wherein said board comprises a fiberglass mat embedded in polyurethane resin on at least one surface.
4. Board of claim 2, wherein said board comprises fiberglass mats embedded in polyurethane resin on both surfaces.
5. Board of claim 2 wherein said resin is foamed polyurethane resin.
6. Board of claim 5 wherein said board comprises a fiberglass mat embedded in unfoamed polyurethane resin on at least one surface.
7. Board of claim 5, wherein said board comprises fiberglass mats embedded in unfoamed polyurethane resin on both surfaces.
8. Board of claim 2 wherein said cured polyurethane resin comprises feather barbs from about 5 to about 80% by volume, said barbs being at least about 80 microns long.
9. Board of claim 8 comprising fiberglass mats weighing at least about $\frac{1}{2}$ ounce/square foot and embedded in unfoamed polyurethane resin from about $\frac{1}{32}$ to about $\frac{1}{4}$ inch thick on both surfaces.
10. Board of claim 9, wherein said cured polyurethane comprising said feather barbs is solid and from about $\frac{1}{8}$ to about 1 inch thick.

11. Board of claim 9, wherein said cured polyurethane comprising said feather barbs is foamed, and has a density of about $1\frac{1}{2}$ to about $62\frac{1}{2}$ lbs/cubic foot, and has a thickness of from about $\frac{1}{4}$ to about 6 inches.

12. Board of claim 11, wherein said foamed polyurethane has a density of from about 5 to about 10 lbs/cubic foot.

13. Method of manufacture of a board comprising the steps of forming a resin components-feather barb slurry and; placing said slurry in a mold and; closing said mold and; curing said resin components.

14. Method of claim 13, wherein said resin components are polyurethane precursors.

15. Method of claim 14, comprising the steps of placing a fiberglass mat in a mold and;
saturating said fiberglass mat with polyurethane precursors and;
forming a polyurethane precursors-feather barb slurry and;
placing said slurry in said mold on said fiberglass mat and;
closing said mold and;
curing said polyurethane precursors.

16. Method of claim 15, comprising the steps of placing a fiberglass mat in a mold and;
saturating said fiberglass mat with polyurethane precursors and;
forming a polyurethane precursors-feather barb-blowing agent slurry and;
placing said slurry in said mold on said fiberglass mat and;
closing said mold and;
curing and foaming said polyurethane precursors.

17. Method of claim 15, comprising the steps of placing a fiberglass mat in a mold and;
saturating said fiberglass mat with polyurethane precursors and;
forming a polyurethane precursors-feather barb slurry and;
placing said slurry in said mold on said fiberglass mat and;
placing a second fiberglass mat on said slurry and;
saturating said second fiberglass mat with polyurethane precursors and;
closing said mold and;
curing said polyurethane precursors.

18. Method of claim 17, comprising the steps of placing a fiberglass mat in a mold and;
saturating said fiberglass mat with polyurethane precursors and;
forming a polyurethane precursors-feather barb-blowing agent slurry and;
placing said slurry in said mold on said fiberglass mat and;
placing a second fiberglass mat on said slurry and;
saturating said second fiberglass mat with polyurethane precursors and;
closing said mold and;
curing and foaming said polyurethane precursors.

19. Method of manufacture of a board comprising the steps of placing a first fiberglass mat on a first lower conveyor belt and;
spraying polyurethane precursors on said first fiberglass mat to saturate said first fiberglass mat and;
forming a polyurethane precursor-feather barb slurry and;
spraying said slurry on said first fiberglass mat and;
placing a second fiberglass mat on said slurry and;
spraying polyurethane precursors on said second fiberglass mat to saturate said second fiberglass mat and;

contacting said second fiberglass mat with a second upper conveyor belt and;

curing said polyurethane precursors between said conveyor belts.

20. Method of claim 19 comprising the steps of placing a first fiberglass mat on a first lower conveyor belt and;

spraying polyurethane precursors on said first fiberglass mat to saturate said first fiberglass mat and;

forming a polyurethane precursor-feather barb-blowing agent slurry and;

spraying said slurry on said first fiberglass mat and;

placing a second fiberglass mat on said slurry and;

spraying polyurethane precursors on said second fiberglass mat to saturate said second fiberglass mat and;

contacting said second fiberglass mat with a second upper conveyor belt and;

curing and foaming said polyurethane precursors between said conveyor belts.